

FOURTEENTH REPORT OF THE COMMITTEE
ON PLANT DISTRIBUTION

The thirteenth report included the Dicotyledoneae from Portulacaceae through Lauraceae. The present report deals with the families from Papaveraceae through Platanaceae, taken in the order of the eighth edition of Gray's Manual.

The data for these reports have been compiled from the material found in the herbarium of the New England Botanical Club and in the Gray Herbarium.

PRELIMINARY LISTS OF NEW ENGLAND PLANTS — XXXIX

The sign + indicates that an herbarium specimen has been seen, the sign — that a reliable printed record has been found and the sign * is used for those plants which are not native in the New England area.

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
PAPAVERACEAE						
<i>Adlumia fungosa</i> (Ait.) Greene	+	+	+	+	+	+
* <i>Argemone alba</i> Lestib. f.						+
* <i>Argemone mexicana</i> L.			—	+		+
* <i>Chelidonium majus</i> L.	+	+	+	+	+	+
<i>Corydalis aurea</i> Willd.			+			
<i>Corydalis flavula</i> (Raf.) DC.						+
<i>Corydalis sempervirens</i> (L.) Pers.	+	+	+	+	+	+
<i>Dicentra canadensis</i> (Goldie) Walp.	—	+	+	+	—	+
<i>Dicentra Cucullaria</i> (L.) Bernh.	+	+	+	+	—	+
* <i>Dicentra eximia</i> (Ker) Torr.			+	+		
* <i>Dicentra formosa</i> (Andr.) Walp.				+		
* <i>Dicentra spectabilis</i> (L.) Lem.						+
* <i>Eschscholtzia californica</i> Cham.						+
* <i>Fumaria officinalis</i> L.	+	+	+	+		+
* <i>Glaucium flavum</i> Crantz				+	+	
* <i>Macleaya cordata</i> (Willd.) R. Br.	+		—	+		
* <i>Papaver dubium</i> L.				+	+	—
* <i>Papaver Rhoeas</i> L.	+	+	+	+		+
* <i>Papaver somniferum</i> L.	+	+	+	+	+	+
<i>Sanguinaria canadensis</i> L.	+	+	+	+	+	+
CAPPARIDACEAE						
* <i>Cleome serrulata</i> Pursh				+		
* <i>Cleome spinosa</i> Jacq.				+	+	+
<i>Polanisia graveolens</i> Raf.			+			
CRUCIFERAE						
* <i>Alliaria officinalis</i> Andrz.			—	+		+
* <i>Alyssum Alyssoides</i> L.	+			+	+	+
* <i>Alyssum saxatile</i> L.		+		+		
<i>Arabis canadensis</i> L.	+	+	+	+	+	+
<i>Arabis divaricarpa</i> Nels.			+			
<i>Arabis Drummondii</i> Gray	+	+	+	+	+	+

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
<i>Arabis glabra</i> (L.) Bernh.	+	+	+	+	—	+
<i>Arabis hirsuta</i> (L.) Scop. var. <i>pycnocarpa</i> (M. Hopkins) Rollins	+	+	+	+		+
<i>Arabis laevigata</i> (Muhl.) Poir.	+	+	+	+	—	+
<i>Arabis lyrata</i> L.			+	+		+
<i>Arabis missouriensis</i> Greene	+	+	+	+	+	+
* <i>Arabis procurrens</i> Waldst. & Kit.				+		
* <i>Arabidopsis Thaliana</i> (L.) Heynh.	+	+	—	+	+	+
<i>Armoracia aquatica</i> (Eat.) Wieg.	+		+			
* <i>Armoracia lapathifolia</i> Gilib.	+	+	+	+	+	+
<i>Barbarea orthoceras</i> Ledeb.	+	+				
* <i>Barbarea verna</i> (Mill.) Aschers.	+			+		+
* <i>Barbarea vulgaris</i> R. Br.	+	+	+	+	+	+
* <i>Barbarea vulgaris</i> var. <i>arcuata</i> (Opiz) Fries	+	+	+	+	+	+
* <i>Barbarea vulgaris</i> var. <i>brachycarpa</i> Rouy & Foucaud	+	+		+		+
* <i>Berteroa incana</i> (L.) DC.	+	+	+	+	+	+
* <i>Berteroa mutabilis</i> (Vent.) DC.				+		
* <i>Brassica hirta</i> Moench	+	+	—	+	—	+
* <i>Brassica juncea</i> (L.) Coss.	+	+	+	+	+	+
* <i>Brassica juncea</i> var. <i>crispifolia</i> Bailey	+		+	+		+
* <i>Brassica Kaber</i> (DC.) L. C. Wheeler var. <i>pinnatifida</i> (Stokes) L. C. Wheeler	+	+	+	+	+	+
* <i>Brassica Kaber</i> var. <i>Schkuhriana</i> (Reichenb.) L. C. Wheeler	—		+	+	+	—
* <i>Brassica Napus</i> L.	+	+	—	+	+	+
* <i>Brassica nigra</i> (L.) Koch	+	+	+	+	+	+
* <i>Brassica oleracea</i> L.			—	+	+	
* <i>Brassica Rapa</i> L.	+	+	+	+	+	+
<i>Braya humilis</i> (C. A. Mey.) Robins, var. <i>leiocarpa</i> (Trautv.) Fern.			+			
<i>Cakile edentula</i> (Bigel.) Hook.	+	+		+	+	+
* <i>Camelina microcarpa</i> Andrz.	+	+	—	+	+	+
* <i>Camelina sativa</i> (L.) Crantz	+	+	+	+	+	+
* <i>Capsella Bursa-pastoris</i> (L.) Medic.	+	+	+	+	+	+
* <i>Capsella Bursa-pastoris</i> var. <i>bifida</i> Crépin				+		
* <i>Capsella rubella</i> Reut.	+			+		
<i>Cardamine bellidifolia</i> L.	+	+				
<i>Cardamine bulbosa</i> (Schreb.) BSP.			+	+	—	+
<i>Cardamine Douglassii</i> (Torr.) Britt.				+		+
<i>Cardamine flexuosa</i> With.			—			
* <i>Cardamine hirsuta</i> L.				+		+
* <i>Cardamine impatiens</i> L.		+				
<i>Cardamine Longii</i> Fern.	+					
<i>Cardamine parviflora</i> L. var. <i>arenicola</i> (Britt.) O. E. Schulz	+	+	+	+	+	+
<i>Cardamine pensylvanica</i> Muhl.	+	+	+	+	+	+
<i>Cardamine pensylvanica</i> var. <i>Brittoniana</i> Farw.	+			+		+
* <i>Cardamine pratensis</i> L.	+	+	+	+	+	+
* <i>Cardamine pratensis</i> f. <i>plena</i> G. Beck				+		
<i>Cardamine pratensis</i> var. <i>palustris</i> Wimm. & Grab.			+	+		+
* <i>Cardaria Draba</i> (L.) Desv.				+	—	+
* <i>Chorispora tenella</i> (Willd.) DC.				+		
* <i>Coronopus didymus</i> (L.) Sm.	+			+	—	+
* <i>Coronopus procumbens</i> Gilib.				+	+	
* <i>Conringia orientalis</i> (L.) Dumort.	+	+	+	+		+

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
<i>Dentaria anomala</i> Eames						+
<i>Dentaria diphylla</i> Michx.	+	+	+	+		+
<i>Dentaria incisifolia</i> Eames						+
<i>Dentaria laciniata</i> Muhl.		+	+	+		+
<i>Dentaria maxima</i> Nutt.	+		+	+		+
<i>Descurainia pinnata</i> (Walt.) Britt. var. <i>brachycarpa</i> (Richards.) Fern.		+	+			
<i>Descurainia Richardsonii</i> (Sweet) O. E. Schulz	+			+		+
* <i>Descurainia Sophia</i> (L.) Webb	+	+	—	+	+	+
* <i>Diplotaxis muralis</i> (L.) DC.				+		+
* <i>Diplotaxis tenuifolia</i> (L.) DC.				+		+
<i>Draba Allenii</i> Fern.	—					
<i>Draba arabisans</i> Michx.	+		+			
<i>Draba glabella</i> Pursh			+			
<i>Draba lanceolata</i> Royle	+	+	+			
<i>Draba reptans</i> (Lam.) Fern.				+	+	+
* <i>Draba verna</i> L.			—	+	+	+
* <i>Draba verna</i> var. <i>Boerhaavii</i> Van Hall				+	+	+
* <i>Eruca sativa</i> Mill.			—	+		—
* <i>Erucastrum gallicum</i> (Willd.) O. E. Schulz	+	+	—	+		
* <i>Erysimum cheiranthoides</i> L.	+	+	+	+	+	+
<i>Erysimum inconspicuum</i> (S. Wats.) MacM.	+	+				
* <i>Erysimum pannonicum</i> Crantz				+		
* <i>Erysimum repandum</i> L.				+		
* <i>Hesperis matronalis</i> L.	+	+	+	+	+	+
* <i>Iberis amara</i> L.	+			+		—
* <i>Iberis umbellata</i> L.		+				
* <i>Lepidium campestre</i> (L.) R. Br.	+	+	+	+	+	+
* <i>Lepidium densiflorum</i> Schrad.	+	+	+	+	+	+
* <i>Lepidium latifolium</i> L.				+		+
* <i>Lepidium perfoliatum</i> L.	+			+		+
* <i>Lepidium ruderales</i> L.	+	+	—	+	+	—
* <i>Lepidium sativum</i> L.	+	+	—	+	+	+
<i>Lepidium virginicum</i> L.	+	+	+	+	+	+
* <i>Lobularia maritima</i> (L.) Desv.	+		+	+	+	+
* <i>Lunaria annua</i> L.	—		+	+		—
* <i>Malcolmia maritima</i> R. Br.		+				
* <i>Nasturtium officinale</i> R. Br.	+	+	+	+	+	+
* <i>Nasturtium officinale</i> var. <i>microphyllum</i> (Boenn.) Thell.	+	+	+	+	+	+
* <i>Nasturtium officinale</i> var. <i>siifolium</i> (Reichenb.) Koch				+		+
* <i>Neslia paniculata</i> (L.) Desv.	+	+	—	+		+
* <i>Raphanus Raphanistrum</i> L.	+	+	+	+	+	+
* <i>Raphanus sativus</i> L.	+	+	+	+	+	+
* <i>Rapistrum rugosum</i> (L.) All.				+		
* <i>Rorippa amphibia</i> (L.) Bess.	+			+		+
<i>Rorippa islandica</i> (Oeder) Borbás		+		+	+	+
<i>Rorippa islandica</i> var. <i>Fernaldiana</i> Butt. & Abbe	+	+	+	+	+	+
<i>Rorippa islandica</i> var. <i>hispida</i> (Desv.) Butt. & Abbe	+	+	+	+	+	+
* <i>Rorippa sessiliflora</i> (Nutt.) Hitchc.				+		
* <i>Rorippa sylvestris</i> (L.) Bess.	+	+	+	+	+	+
* <i>Sisymbrium altissimum</i> L.	+	+	+	+	+	+
* <i>Sisymbrium Loeselii</i> L.		+		+		+
* <i>Sisymbrium officinale</i> (L.) Scop.	+	+	+	+	+	+

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
* <i>Sisymbrium officinale</i> var. <i>leiocarpum</i> DC.	+	+	+	+	+	+
* <i>Sisymbrium orientale</i> L.				+		
<i>Subularia aquatica</i> L.	+	+	+			
* <i>Teesdalia nudicaulis</i> (L.) R. Br.				+		
* <i>Thlaspi arvense</i> L.	+	+	+	+	+	+
RESEDACEAE						
* <i>Reseda alba</i> L.	+	+	+	+		+
* <i>Reseda lutea</i> L.	+		+	+	+	+
* <i>Reseda Luteola</i> L.				+		+
* <i>Reseda odorata</i> L.			+	+		—
SARRACENIACEAE						
<i>Sarracenia purpurea</i> L.	+	+	+	+	+	+
DROSERACEAE						
<i>Drosera filiformis</i> Raf.				+		
<i>Drosera intermedia</i> Hayne	+	+	+	+	+	+
<i>Drosera linearis</i> Goldie	+					
<i>Drosera rotundifolia</i> L.	+	+	+	+	+	+
<i>Drosera rotundifolia</i> var. <i>comosa</i> Fern.	+	+				
PODOSTEMACEAE						
<i>Podostemum ceratophyllum</i> Michx.	+	+	+	+	+	+
CRASSULACEAE						
* <i>Sedum acre</i> L.	+	+	+	+	+	+
* <i>Sedum alboroseum</i> Baker	+			+		
* <i>Sedum anopetalum</i> DC.	+					
* <i>Sedum purpureum</i> (L.) Link	+	+	+	+	+	+
<i>Sedum Rosea</i> (L.) Scop.	+		+			
* <i>Sedum rupestre</i> L.				+		
* <i>Sedum sarmentosum</i> Bunge				+		
* <i>Sedum spurium</i> Bieb.	+					
* <i>Sedum Telephium</i> L.			+	+	—	
<i>Sedum ternatum</i> Michx.	—		+	+	—	+
* <i>Sempervivum tectorum</i> L.	+	+	—	+		—
<i>Tillaea aquatica</i> L.	+			+		+
SAXIFRAGACEAE						
* <i>Astilbe japonica</i> (Morren & Dcne.) Gray					+	
<i>Chrysosplenium americanum</i> Schwein.	+	+	+	+	+	+
* <i>Deutzia scabra</i> Thunb.						+
* <i>Heuchera americana</i> L.						+
* <i>Hydrangea paniculata</i> Sieb.				+		+
* <i>Hydrangea quercifolia</i> Bartr.						+
* <i>Hydrangea radiata</i> Walt.						+
<i>Mitella diphylla</i> L.		+	+	+		+
<i>Mitella prostrata</i> Michx.						+
<i>Mitella nuda</i> L.	+	+	+	+		+
<i>Parnassia glauca</i> Raf.	+	+	+	+	+	+
<i>Penthorum sedoides</i> L.	+	+	+	+	+	+
* <i>Philadelphus coronarius</i> L.	+		+	+		+
* <i>Philadelphus inodorus</i> L.				+	+	—
* <i>Philadelphus pubescens</i> Loisel.						+
<i>Ribes americanum</i> Mill.	+	+	+	+	+	+
<i>Ribes cynosbati</i> L.	+	+	+	+		+
<i>Ribes glandulosum</i> Grauer	+	+	+	+		+
* <i>Ribes Grossularia</i> L.	+	+	+	+		+
<i>Ribes hirtellum</i> Michx.	+	+	+	+	+	+
<i>Ribes hirtellum</i> var. <i>calcicola</i> Fern.	+			+	+	
<i>Ribes hirtellum</i> var. <i>saxosum</i> (Hook.) Fern.	+					

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
<i>Ribes lacustre</i> (Pers.) Poir.	+	+	+	+		+
<i>Ribes missouriense</i> Nutt.						+
* <i>Ribes nigrum</i> L.	+	+	+	+		+
* <i>Ribes odoratum</i> Wendland f.	+		+	+		+
<i>Ribes rotundifolium</i> Michx.		+				+
* <i>Ribes sativum</i> Syme	+	+	+	+	+	+
<i>Ribes triste</i> Pall.	+	+	+	+		+
<i>Saxifraga aizoides</i> L.			+			
<i>Saxifraga Aizoön</i> Jacq. var. <i>neogaea</i> Butters	+		+			
<i>Saxifraga oppositifolia</i> L.			+			
<i>Saxifraga pensylvanica</i> L.	+	+	+	+	+	+
<i>Saxifraga rivularis</i> L.		+				
<i>Saxifraga stellaris</i> L. var. <i>comosa</i> Poir.	+					
<i>Saxifraga virginiana</i> Michx.	+	+	+	+	+	+
<i>Tiarella cordifolia</i> L.	+	+	+	+		+
HAMAMELIDACEAE						
<i>Hamamelis virginiana</i> L.	+	+	+	+	+	+
<i>Hamamelis virginiana</i> var. <i>parvifolia</i> Nutt.	—			+		
<i>Liquidambar styraciflua</i> L.						+
PLATANACEAE						
<i>Platanus occidentalis</i> L.	—	+	+	+	+	+

The Saxifragaceae, Hamamelidaceae and Platanaceae were treated by C. H. Knowlton in 1916 (*Rhodora* XVIII-245-248). The Capparidaceae, Resedaceae, Sarraceniaceae, Droseraceae, Podostemaceae and Crassulaceae were also treated by C. H. Knowlton in 1917 (*Rhodora* XIX-217-219). These groups are also included in the present report.

As noted in previous reports the introduced plants have in general tended to spread in the intervening years. The native species show the same distribution as in these earlier reports with very few exceptions. *Podostemum ceratophyllum* has now been collected in both New Hampshire and Vermont. *Parnassia glauca* and *Ribes rotundifolium* are now represented by specimens from New Hampshire. *Saxifraga Aizoön* before known from northern Vermont only has now been collected on Mt. Katahdin in Maine.

The geographical areas are in general the same as used previously. Again a large number of the plants included are not native to New England and the percentage of such plants is greater than in the two previous reports, fifty-six percent. If the Cruciferae alone were considered, the percentage of introduced plants would be sixty-six.

I. GENERALLY DISTRIBUTED. — *Cardamine pensylvanica*, *Lepidium virginicum*, *Rorippa islandica* var. *Fernaldiana*, *Sarracenia purpurea*,

Drosera intermedia, *D. rotundifolia*, *Chrysosplenium americanum*, *Ribes hirtellum*. The number of species and varieties considered as generally distributed, eight, is small for the large number of the plants treated.

Ia. GENERAL, EXCEPT CAPE COD. — *Corydalis sempervirens*, *Rorippa islandica* var. *hispida*, *Ribes americanum*, *Tiarella cordifolia*. *Tiarella cordifolia* also is absent from Rhode Island and from Bristol and Plymouth Counties in Massachusetts.

Ib. GENERAL, EXCEPT CAPE COD AND THE MAINE COAST EAST OF THE KENNEBEC RIVER. — *Sanguinaria canadensis*, *Arabis glabra*, *Dentaria diphylla*.

Ic. GENERAL, EXCEPT CAPE COD AND WASHINGTON COUNTY, MAINE. — *Arabis Drummondii*.

IIa. NORTHERN-NOT OR NOT MUCH SOUTH OF 43°. — *Barbarea orthoceras*, *Subularia aquatica*. *Barbarea orthoceras* is distinctly northern and is represented in New England by only three stations, Fort Kent and St. Francis, Maine and Mt. Washington, New Hampshire. *Subularia aquatica* is also northern in its general distribution but in New England it has not been reported from Northern Maine; in fact there are only five collections in all from Maine.

IIb. NORTHERN-NUMEROUS STATIONS SOUTH OF 43°. — *Mitella nuda*, *Ribes glandulosum*, *R. lacustre*, *R. triste*.

III. ALPINE-ARCTIC. — *Cardamine bellidifolia*, *Sedum Rosea*, *Saxifraga aizoides*, *S. Aizoön*, *S. oppositifolia*, *S. rivularis*, *S. stellaris* var. *comosa*. *Sedum Rosea* in New England follows along the rocky coast of eastern Maine and has two stations in Vermont. *Saxifraga aizoides*, *S. Aizoön*, and *S. oppositifolia* are alpine but they are also calcicolous, as their occurrence only in northern Vermont indicates. *S. Aizoön*, although it prefers a calcareous soil, is not restricted to it and is found on Mt. Katahdin.

IVa. SOUTHERN-GENERAL SOUTH OF 45°. — *Cardamine parviflora* var. *arenicola*, *C. pensylvanica* var. *Brittoniana*, *Hamamelis virginiana*. Although *Cardamine pensylvanica* var. *Brittoniana* is represented by very few stations, it seems to belong to this category.

IVb. SOUTHERN-GENERAL SOUTH OF 45° BUT NOT ON MAINE COAST EAST OF THE KENNEBEC RIVER. — *Saxifraga pensylvanica*.

IVc. SOUTHERN-GENERAL SOUTH OF 45° BUT NEITHER CAPE COD NOR WASHINGTON COUNTY. — *Adlumia fungosa*, *Dicentra Cucullaria*, *Arabis hirsuta* var. *pycnocarpa*, *Penthorum sedoides*, *Saxifraga virginien-sis*.

Va. CHIEFLY THE THREE SOUTHERN STATES. — *Platanus occidentalis*.

Vb. CHIEFLY THE THREE SOUTHERN STATES BUT NOT ON CAPE COD. — *Arabis canadensis*.

Vc. CHIEFLY THE THREE SOUTHERN STATES BUT NEITHER CAPE COD NOR WESTERN MASSACHUSETTS. — *Arabis missouriensis*, *Draba reptans*.

VI. SOUTHWESTERN NEW ENGLAND CHIEFLY. — *Cardamine Douglassii*, *Heuchera americana*, *Liquidambar Styraciflua*. *Cardamine Douglassii* is also a calciphile.

VIII. WESTERN NEW ENGLAND CHIEFLY. — *Dicentra canadensis*, *Arabis lyrata*, *Dentaria incisifolia*, *D. laciniata*, *D. maxima*, *Sedum ternatum*, *Mitella diphylla*, *Arabis lyrata* occurs in southwest Connecticut and Massachusetts and has two stations in southwest Vermont. *Dentaria incisifolia* occurs only in Sharon, Connecticut.

VIII. COASTAL PLAIN. — *Drosera filiformis*, *Ribes hirtellum* var. *calcicola*.

Ribes hirtellum var. *calcicola* is placed in this category with some hesitation. Outside of New England it is in general a calciphile. Within our area it simulates a coastal plain type of distribution as it occurs in Rhode Island, on Cape Cod, Martha's Vineyard and Nantucket and has several stations between the Kennebec River and Mount Desert. This variety is not found on the coastal plain south of New England.

IXa. CALCICOLOUS-CHIEFLY WEST OF THE CONNECTICUT RIVER IN THE SOUTH, IF IN THE EAST MOSTLY NORTH OF 45°. — *Corydalis aurea*, *Arabis divaricarpa*, *Braya humilis* var. *leiocarpa*, *Cardamine flexuosa*, *Draba arabisans*, *D. glabella*, *D. lanceolata*. *Corydalis aurea* is confined to western Vermont with the exception of Norwich in the eastern part of the state where it is represented by a collection made in 1877. *Cardamine flexuosa* has been collected at Wallingford and Smuggler's Notch in Vermont. *Braya humilis* var. *leiocarpa* is confined to the Willoughby region of Vermont. *Draba arabisans* has been collected in Maine and Vermont only. *Draba glabella* has one station at Willoughby, Vermont.

IXb. CALCICOLOUS-ALSO ON BASIC AND NEUTRAL SOILS IN EASTERN MASSACHUSETTS. — *Arabis laevigata*, *Cardamine pratensis* var. *palustris*, *C. bulbosa*, *Parnassia glauca*.

X. MARITIME-IN VICINITY OF COAST, NO INLAND STATIONS. — *Cakile edentula*, *Tillaea aquatica*.

XI. ESTUARINE. — *Cardamine Longii*, found only at Bowdoinham, Maine. A collection made at Newton Upper Falls, Massachusetts represents an authenticated introduction.

XII. MISCELLANEOUS. — *Corydalis flavula*, *Polanisia graveolens*, *Armoracia aquatica*, *Dentaria anomala*, *Descurainia pinnata* var. *brachycarpa*, *D. Richardsonii*, *Erysimum inconspicuum*, *Rorippa islandica*, *Drosera linearis*, *D. rotundifolia* var. *comosa*, *Podostemum ceratophyllum*, *Mitella prostrata*, *Ribes Cynosbati*, *R. hirtellum* var. *saxosum*, *R. rotundifolium*. *Corydalis flavula* is known only from Meriden and Middletown, Connecticut. *Polanisia graveolens* is confined to the Lake Champlain area of Vermont. *Armoracia aquatica* has two stations in

the Lake Champlain region at Ferrisburg and Shelburne, Vermont and a questionable one at East Boothbay, Maine. *Dentaria anomala* occurs at Plainville and Orange, Connecticut. *Descurainia pinnata* var. *brachycarpa* is occasional in the White Mountains of New Hampshire and the Lake Champlain area of Vermont. *Descurainia Richardsonii* is apparently native at Moscow, Maine. Specimens from South Berwick, Maine, Acton, Massachusetts and Waterbury, Connecticut are presumably adventive. *Erysimum inconspicuum* is a western species adventive along railroad tracks at Canton and Falmouth, Maine and Gorham and Berlin, New Hampshire. *Rorippa islandica* has a very spotty distribution: two stations in New Hampshire, six in Massachusetts, one at Block Island, and two in Connecticut. *Drosera linearis* has been collected only in the marly bog at Crystal, Maine. *Drosera rotundifolia* var. *comosa* has been found at Mt. Desert, Maine and Waterville, New Hampshire. *Podostemum ceratophyllum* is occasional in some swift streams and rivers south of 45°. *Mitella prostrata* is known only at Gaylordsville, Connecticut. *Ribes Cynosbati* does not conform to any of the categories that have been used. It seems to occur chiefly in western New England but has four stations in Western Maine and appears on both Martha's Vineyard and Nantucket. *Ribes hirtellum* var. *saxosum* is represented by one collection from Mt. Desert, Maine. *Ribes rotundifolium* has been found at Crawford Notch, New Hampshire and at Danbury and Meriden, Connecticut.

XIII. INTRODUCED SPECIES-GENERAL. — *Armoracia lapathifolia*, *Barbarea vulgaris*, *Brassica juncea*, *B. nigra*, *B. Rapa*, *Camelina sativa*, *Capsella Bursa-pastoris*, *Erysimum cheiranthoides*, *Lepidium densiflorum*, *Sisymbrium altissimum*, *S. officinale* var. *leiocarpum*, *Thlaspi arvense*, *Ribes sativum*.

XIIIa. INTRODUCED SPECIES-NEITHER CAPE COD NOR NORTHERN MAINE. — *Hesperis matronalis*, *Rorippa sylvestris*, *Sisymbrium officinale*.

XIIIb. INTRODUCED SPECIES WITH SOUTHERN TENDENCIES-CHIEFLY SOUTH OF 43°. — *Chelidonium majus*, *Fumaria officinalis*, *Alyssum alyssoides*, *Arabidopsis Thaliana*, *Barbarea vulgaris* var. *arcuata*, *Berteroa incana*, *Brassica hirta*, *B. Kaber* var. *pinnatifida*, *B. Kaber* var. *Schkuhriana*, *Camelina microcarpa*, *Cardamine pratensis*, *Conringia orientalis*, *Descurainia Sophia*, *Draba verna*, *D. verna* var. *Boerhaavii*, *Lepidium campestre*, *L. ruderale*, *L. sativum*, *Lobularia maritima*, *Nasturtium officinale*, *N. officinale* var. *microphyllum*, *Neslia paniculata*, *Raphanus Raphanistrum*, *R. sativum*, *Sedum acre*, *S. purpureum*, *Sempervivum tectorum*, *Deutzia scabra*, *Philadelphus inodorus*, *Ribes Grossularia*, *R. odoratum*.

XIIIc. INTRODUCED SPECIES-SPORADIC. — *Papaver Rhoeas*, *P. somniferum*, *Barbarea verna*, *Brassica Napus*, *B. oleracea*, *Sisymbrium Loeselii*, *Reseda alba*, *R. lutea*, *Hydrangea paniculata* (apparently well established at Lincoln, Massachusetts), *Ribes nigrum*.

XIIIId. INTRODUCED SPECIES-LOCAL. — *Argemone alba*, *A. mexicana*, *Dicentra eximia*, *Eschscholtzia californica*, *Glaucium flavum*, *Macleaya cordata*, *Papaver dubium*, *Cleome spinosa*, *Alliaria officinalis*, *Alyssum saxatile*, *Barbarca vulgaris* var. *brachycarpa*, *Berteroa mutabilis*, *Brassica juncea* var. *crispifolia*, *Capsella Bursa-pastoris* var. *bifida*, *C. rubella*, *Cardamine hirsuta*, *Cardaria* *Draba*, *Chorispora tenella*, *Coronopus didymus*, *C. procumbens*, *Diplotaxis muralis*, *D. tenuifolia*, *Eruca sativa*, *Erucastrum gallicum*, *Erysimum repandum*, *Iberis amara*, *Lepidium latifolium*, *L. perfoliatum*, *Lunaria annua*, *Nasturtium officinale* var. *siifolium*, *Rapistrum rugosum*, *Rorippa amphibia*, *Teesdalia nudicaulis*, *Reseda Luteola*, *R. odorata*, *Sedum alboroseum*, *S. anopetalum*, *S. rupestre*, *S. sarmentosum*, *S. spurium*, *S. Telephium*, *Philadelphus coronarius*, *P. pubescens*.

The following local introduced plants are represented by only one station in New England and it is doubtful if they should be considered as a real part of our flora: *Dicentra formosa* (Danvers, Massachusetts); *D. spectabilis* (Westport, Connecticut); *Cleome serrulata* (Lawrence, Massachusetts); *Arabis procurrens* (Wakefield, Massachusetts); *Cardamine impatiens* (Peterborough, New Hampshire); *Erysimum pannonicum* (Westfield, Massachusetts); *Iberis umbellata* (Randolph, New Hampshire); *Malcolmia maritima* (Shelburne, New Hampshire); *Rorippa sessilifolia* (Salem, Massachusetts); *Sisymbrium orientale* (Milton, Massachusetts); *Astilbe japonica* (Providence, Rhode Island); *Hydrangea quercifolia* (Norwalk, Connecticut); *H. radiata* (Fairfield, Connecticut). — R. C. BEAN, A. F. HILL, AND R. J. EATON.

A NEW MANUAL FOR OHIO VASCULAR PLANTS.¹ — The appearance of a new manual for the identification of Ohio vascular plants is worthy of special notice. For many years students have had to rely on J. H. Schaffner's manual² which has long since become out-dated and out-of-print. Dr. Weishaupt, who is curator of the Ohio State Herbarium, has prepared a book that meets this pressing need for an up-to-date accounting of Ohio plants.

Essentially, her manual is a series of dichotomous keys. Vascular plants are categorized as "Pteridophyta" or "Spermatophyta". Within these groups artificial keys to families

¹Vascular Plants of Ohio — a manual for use in field and laboratory, by Clara G. Weishaupt. 309 pp. 8½ x 11, 1960. Harold L. Hedrick, Columbus, Ohio, publisher. \$5.50.

²Field manual of the flora of Ohio and adjacent territory. Columbus, Ohio. 1928.